IN THE CLAIMS

This listing of claims replaces all prior versions, and listings, in this application.

Claims 1-5 (canceled)

- 6. (currently amended) A method of protecting one or more cell types of a <a href="https://www.numan.com/h
- 7. (currently amended) The method of Claim 6, wherein the protein S <u>polypeptide</u> or the functional variant is [[a]] human protein S or functional variant.
- 8. (currently amended) The method of Claim 6, wherein the protein S <u>polypeptide</u> or the functional variant has at least anti-thrombotic activity.
- 9. (currently amended) The method of Claim 6, wherein the protein S polypeptide or the functional variant has at least anti-inflammatory activity.
- 10. (currently amended) The method of Claim 6, wherein the protein S <u>polypeptide</u> of the functional variant at least inhibits apoptosis or acts as a cell survival factor.
- 11. (currently amended) The method of Claim 6, wherein the protein S <u>polypeptide</u> of the functional variant acts through one or more receptors selected from the group consisting of annexin II and Tyro3/AxI receptor tyrosine kinases.

Claim 12 (canceled)

13. (currently amended) The method of Claim 6, wherein there is no deficiency of protein S activity in the <u>human</u> subject.

Claims 14-15 (canceled)

- 16. (currently amended) The method of Claim 6, wherein the protein S <u>polypeptide</u> of the functional variant is administered before and/or after diagnosis of disease or another pathological condition.
- 17. (currently amended) The method of Claim 6, wherein cerebral blood flow in the https://human.subject's brain is increased by administration of the protein S polypeptide or the functional variant.
- 18. (currently amended) The method of Claim 6, wherein volume of the <u>human</u> subject's brain which is affected by injury, infarction, edema, or a combination thereof is decreased by administration of the protein S polypeptide or the functional variant.

Claims 19-24 (canceled)

- 25. (new) A method of treating neurotrauma comprising administration to a human subject of an effective amount of a protein S polypeptide which is greater than 95% identical in amino acid sequence to human protein S to treat neurotrauma, wherein no protein C or activated protein C is administered.
- 26. (new) The method of Claim 25, wherein the protein S polypeptide is human protein S.
- 27. (new) The method of Claim 25, wherein the protein S polypeptide has at least anti-thrombotic and anti-inflammatory activities.

- 28. (new) The method of Claim 25, wherein the protein S polypeptide acts through one or more receptors selected from the group consisting of annexin II and Tyro3/AxI receptor tyrosine kinases.
- 29. (new) The method of Claim 25, wherein there is no deficiency of protein S activity in the human subject.
- 30. (new) A method of treating stroke comprising administration to a human subject of an effective amount of a protein S polypeptide which is greater than 95% identical in amino acid sequence to human protein S at least to treat stroke, wherein no protein C or activated protein C is administered.
- 31. (new) The method of Claim 30, wherein the protein S polypeptide is human protein S.
- 32. (new) The method of Claim 30, wherein the protein S polypeptide has at least anti-thrombotic and anti-inflammatory activities.
- 33. (new) The method of Claim 30, wherein the protein S polypeptide acts through one or more receptors selected from the group consisting of annexin II and Tyro3/AxI receptor tyrosine kinases.
- 34. (new) The method of Claim 30, wherein there is no deficiency of protein S activity in the human subject.